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To provide an SPR sensor plate which allows easy fixation
of an antibody and easy retention of a subject and which can
5 be manufactured easily, as well as an immune reaction
measuring instrument employing this SPR sensor plate. The
SPR sensor plate includes: a plate-shaped light waveguide 3
that allows light from a light source 21 to be transmitted
therethrough; and a sensing metal film 5 formed on part of
10 a surface of the light waveguide 3. A reflecting metal film
7 is formed on opposite end surfaces of the light waveguide
3 except for a light incident surface 9 and a light exit surface
11 forming inclined surfaces having a same inclination.